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[1. OSD12-EP4: Tactical Power Plant Multi-Generator Intelligent Power Management Controller](#)

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate a ruggedized tactical power plant generator controller to enable fuel savings and reduced generator wear. DESCRIPTION: Tactical power generation for Army deployments has demonstrated low efficiency conversion due to wide variations in load. Tactical generators routinely operate below 50% of peak power which results in low fuel efficiency. Future endeavor ...

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[2. OSD12-EP5: Dynamic Time and Frequency Domain Modeling of Aircraft Power System with Electrical Accumulator Units \(EAU\)](#)

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop generic time and frequency domain analysis modeling and analysis tools to analyze and determine mitigation strategies to maintain power quality with high dynamic aircraft power systems operating with electrical accumulator units (EAU). DESCRIPTION: Ever increasing high dynamic load demands are being placed on aircraft power systems. Peak and regenerated ene ...

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3. OSD12-EP6: Cylindrical Geometry Energy Storage Cooling Architectures

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: To develop compact, low thermal resistance solutions for maintaining the temperature of cylindrical energy storage components set up in high voltage arrays. Better temperature control in platforms will reduce the need to de-rate components, improving reliability and system energy density. DESCRIPTION: Future military platforms will require more extensive use of electronic power sy ...

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4. OSD12-EP7: Militarized Power Line Communication

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Demonstrate cost effective, secure, militarized power line communication system components which can provide a reduced infrastructure solution to properly manage variable resources and loads for multi generator operations, bases, and platforms. DESCRIPTION: Communication is the key to successfully managing the elements that make up a smart electrical architecture or grid including ...

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5. OSD12-ER1: Evaluating Component Interactions Within Complex Systems

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

Objective: This topic seeks proposals to develop innovative, human-in-the-loop mechanisms for identifying analysis, test, and evaluation workflows that need to be generated in order to reduce risk of unanticipated effects. Description: The Department of Defense (DoD) must be prepared to support a wide range of missions across dynamic and uncertain futures, including rapid changes in missions, t ...

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6. OSD12-ER2: Functional Allocation Trades Between Hardware and Software

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

Objective: Develop methods for allocating system functions to implementations of hardware or software with the intent of quantitatively assessing the benefits and drawbacks of these allocation options from a hierarchically increasing view (component, subsystem, system, system-of-systems). The desired outcome is a method for making comparative assessments and design trades between allocation of the ...

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7. OSD12-HS1: Human Computer Interfaces for supervisory control of Multi-mission, Multi-Agent Autonomy

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

Objective: Develop and demonstrate novel decision support concepts and supporting Human Computer Interfaces (HCI) for the supervisory control of multiple autonomous systems, concurrently engaged in multiple missions. Description: The next generation of unmanned platforms for Navy missions must be capable of autonomously responding to multiple, competing needs that will arise dynamically over th ...

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8. OSD12-HS2: Naturalistic Operator Interface for Immersive Environments

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate effective teleoperator interface methods for supervisory control of a network of assets in a fully-immersive, synthetically-augmented environment. DESCRIPTION: Surveillance and intelligence gathering can be linked to finding needles in haystacks it may take days or weeks to gather enough evidence in an operational environment to take decisive action. If non- ...

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9. OSD12-HS3: Natural Dialogue based Gesture Recognition for Unmanned Aerial System Carrier Deck Operations

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: The objective of this effort is to develop and demonstrate a minimally intrusive technology that supports gesture recognition for safe control of UASs on a carrier deck during flight operations. DESCRIPTION: Future concepts of operations for Unmanned Aerial Systems (UAS) include a requirement for an aircraft carrier based platform. A major challenge with basing UAS on aircraft c ...

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10. OSD12-IA1: Cyber Evaluation and Testing Assessment Toolkit (CETAT)

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop innovative tools and techniques that aid in a formalized, Cyber-based forensic evaluation and assessment of a System under Test (SuT). DESCRIPTION: The U.S. Air Force Command and Control (C2) core function must address the increased necessity to develop and employ proper testing and evaluation capabilities for high-fidelity security assessments of their SuT. The analysis of ...

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